

Product datasheet

Anti-CD20 antibody [EP459Y] ab78237

Recombinant RabMAb

★★★★★ 6 Abreviews 14 References 10 Images

Overview

Product name	Anti-CD20 antibody [EP459Y]
Description	Rabbit monoclonal [EP459Y] to CD20
Host species	Rabbit
Tested applications	Suitable for: WB, IP, IHC-P Unsuitable for: Flow Cyt or ICC/IF
Species reactivity	Reacts with: Human, Monkey
Immunogen	Synthetic peptide within Human CD20 aa 250 to the C-terminus (C terminal) conjugated to keyhole limpet haemocyanin. The exact sequence is proprietary.
Positive control	Raji cell lysate. Human lymph node tissue.
General notes	

Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMab[®] patents](#)

We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.

This product is a recombinant rabbit monoclonal antibody.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
Purity	Protein A purified

Clonality	Monoclonal
Clone number	EP459Y
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab78237** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000 - 1/10000. Detects a band of approximately 33 kDa (predicted molecular weight: 33 kDa).
IP		1/20.
IHC-P	★★★★★	1/50 - 1/250.

Application notes Is unsuitable for Flow Cyt or ICC/IF.

Target

Function This protein may be involved in the regulation of B-cell activation and proliferation.

Tissue specificity Expressed on B-cells.

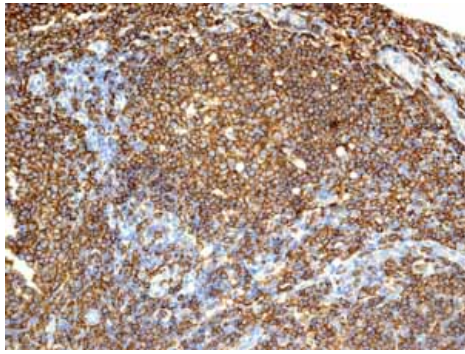
Involvement in disease Defects in MS4A1 are the cause of immunodeficiency common variable type 5 (CVID5) [MIM:613495]; also called antibody deficiency due to CD20 defect. CVID5 is a primary immunodeficiency characterized by antibody deficiency, hypogammaglobulinemia, recurrent bacterial infections and an inability to mount an antibody response to antigen. The defect results from a failure of B-cell differentiation and impaired secretion of immunoglobulins; the numbers of circulating B cells is usually in the normal range, but can be low.

Sequence similarities Belongs to the MS4A family.

Post-translational modifications Phosphorylated. Might be functionally regulated by protein kinase(s).

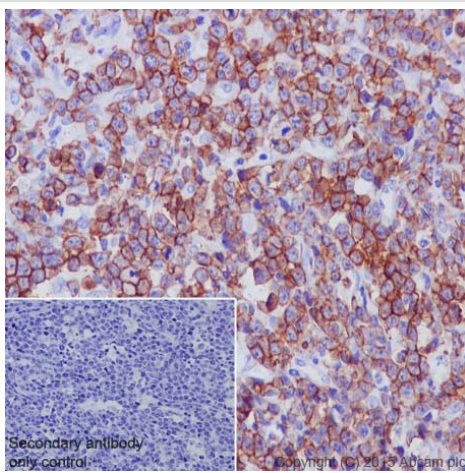
Cellular localization Membrane.

Images



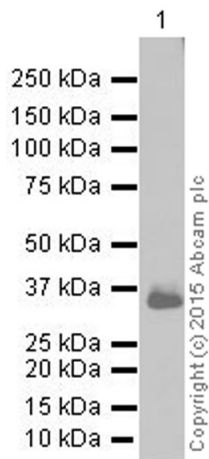
Unpurified ab78237 showing positive staining in normal tonsil tissue.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD20 antibody [EP459Y] (ab78237)



Immunohistochemical staining of paraffin embedded B cell lymphoma with purified ab78237 at a working dilution of 1/50. The secondary antibody used is [ab97051](#), a goat anti-rabbit IgG (H&L) at a dilution of 1/500. The sample is counter-stained with hematoxylin. Antigen retrieval was performed using Tris-EDTA buffer, pH 9.0. PBS was used instead of the primary antibody as the negative control, and is shown in the inset.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD20 antibody [EP459Y] (ab78237)



Western blot - Anti-CD20 antibody [EP459Y]
(ab78237)

Anti-CD20 antibody [EP459Y] (ab78237) at
1/10000 dilution (purified) + Raji whole cell
lysate

Secondary

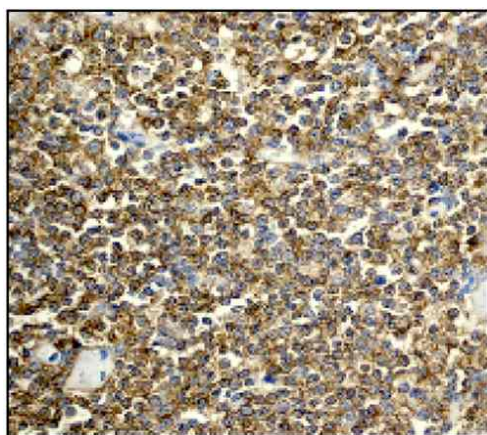
Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at
1/20000 dilution

Predicted band size: 33 kDa

Observed band size: 33 kDa

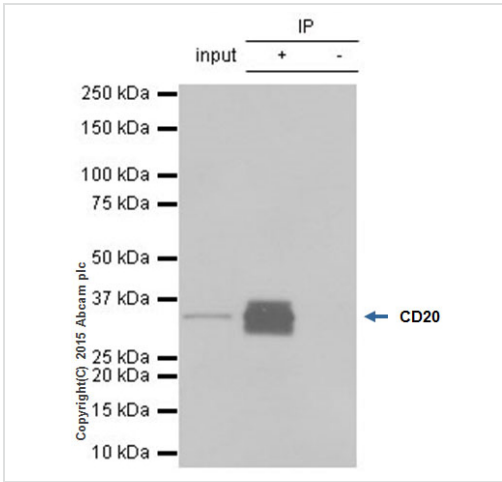
Blocking buffer: 5% NFDm/TBST

Dilution buffer: 5% NFDm/TBST



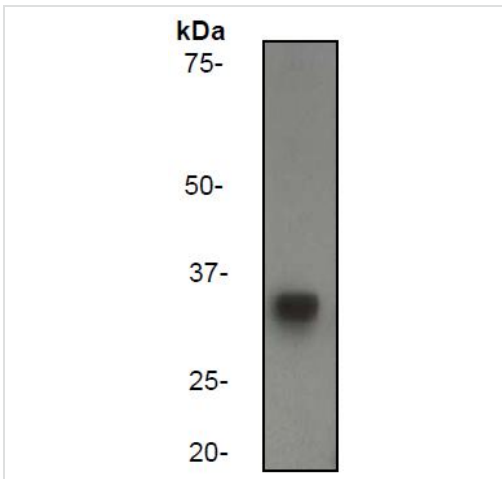
Immunohistochemistry (Formalin/PFA-fixed paraffin-
embedded sections) - Anti-CD20 antibody [EP459Y]
(ab78237)

Unpurified ab78237 staining human CD20 in
human lymphoma tissue by
immunohistochemistry using formalin fixed,
paraffin embedded tissue.



Immunoprecipitation - Anti-CD20 antibody [EP459Y]
(ab78237)

ab78237 (purified) at 1/20
immunoprecipitating CD20 in 10 µg Ramos
cell lysate (Lanes 1 and 2, observed at 33
kDa). Lane 3 - Rabbit monoclonal IgG
([ab172730](#)). For western blotting, HRP
Veriblot for IP ([ab131366](#)) was used as the
secondary antibody (1/10 000). Blocking
buffer and concentration: 5% NFDm/TBST
Dilution buffer and concentration: 5%
NFDm/TBST

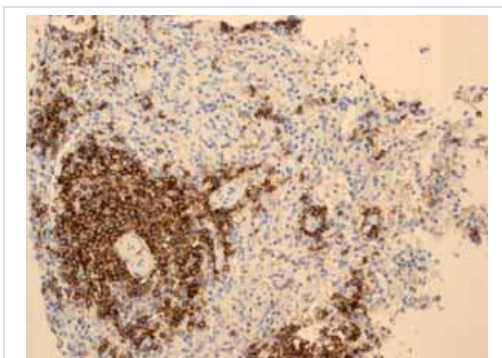


Western blot - Anti-CD20 antibody [EP459Y]
(ab78237)

Anti-CD20 antibody [EP459Y] (ab78237) at
1/5000 dilution (unpurified) + Raji cell lysate

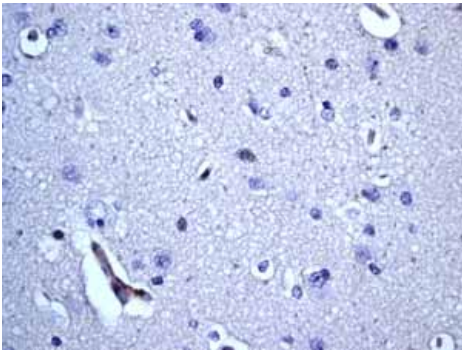
Predicted band size: 33 kDa

Observed band size: 33 kDa



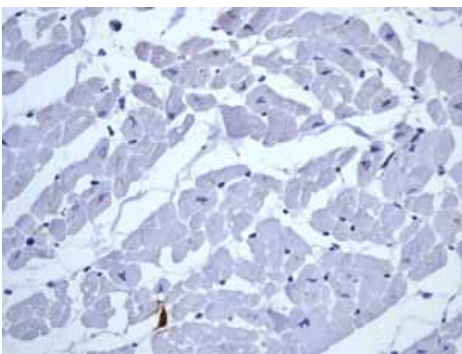
Immunohistochemistry (Formalin/PFA-fixed paraffin-
embedded sections) - Anti-CD20 antibody [EP459Y]
(ab78237)

Unpurified ab78237 showing positive staining
in normal spleen tissue.



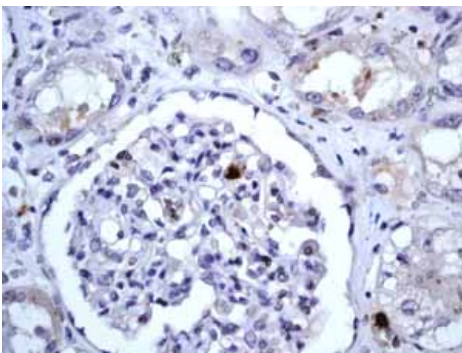
Unpurified ab78237 showing negative staining
in normal brain tissue.

Immunohistochemistry (Formalin/PFA-fixed paraffin-
embedded sections) - Anti-CD20 antibody [EP459Y]
(ab78237)



Unpurified ab78237 showing negative staining
in normal heart tissue.

Immunohistochemistry (Formalin/PFA-fixed paraffin-
embedded sections) - Anti-CD20 antibody [EP459Y]
(ab78237)



Unpurified ab78237 showing negative staining
in normal kidney tissue.

Immunohistochemistry (Formalin/PFA-fixed paraffin-
embedded sections) - Anti-CD20 antibody [EP459Y]
(ab78237)

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